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CLAIMS:

1. A spotlight for generating an output light beam of variable width, including a light source having a selected focal length, and an aperture for directing light from said light source to a first lens, said first lens being movable to adjust the width of said output light beam, wherein the first lens is moveable to a position closely adjacent to said aperture and substantially about or at said selected focal length to minimise said output light beam width.
2. The spotlight of claim 1, wherein the selected light focal length is such that the spotlight has an f number of between 1 and 1.6.
3. The spotlight of claim 2, wherein the f number is at least 1.3.
4. The spotlight of any one of the preceding claims, wherein the positioning of the first lens substantially at or about the selected focal length maximises the intensity of the output light beam.
5. The spotlight of claim 4, wherein the intensity of the output light beam, at the focal point of the spotlight ranges between 2 megawatt/m² to 16 megawatts/m².
6. The spotlight of any one of the preceding claims, further including a selectively variable filter housing having two or more filters, said filter housing being rotatable to selectively interpose one of the said filters between said light source and said aperture to filter light from said light source.
7. The spotlight of claim 6, wherein the filter housing includes a portion, rotatable relative to the filter housing, to selectively interpose one of said filters.
8. The spotlight of claim 7, wherein the rotatable portion is a filter wheel.

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9. The spotlight of claim 7 or 8, wherein the filter housing has at least one chamber for receiving one of the filters.
10. The spotlight of claim 9, wherein the at least one chamber is formed in the rotatable
5 portion.
11. The spotlight of claim 9 or 10, wherein the chambers are radially offset in the filter housing from the rotational axis of the filter housing for selective interposition between the light source and the aperture.
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12. The spotlight of any one of claims 6-11, wherein at least one of the filters includes multiple filter elements.
13. The spotlight of claim 12, wherein the multiple filter elements are formed in a stack
15 in one or more chambers.
14. The spotlight of claim 13, wherein the stack includes at least four filter elements.
15. The spotlight of any one of claims 12-14, wherein the filter elements are coated on
20 at least one side.
16. The spotlight of claim 15, wherein the filter elements are coated on both sides.
17. The spotlight of any one of claims 12-16, wherein the filters filter light of different
25 wavelengths.
18. The spotlight of any one of claims 10-17, wherein the chambers are radially offset in the rotatable portion from the rotational axis of the rotatable portion.

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19. The spotlight of any one of claims 7-18, wherein the rotational axis of one of the filter housing and the rotatable portion is parallel to and laterally disposed from the longitudinal axis of the spotlight.
- 5 20. The spotlight of any one of claims 6-19, wherein the aperture is located in a housing separate from the filter housing.
21. The spotlight of any one of claims 6-19, wherein the filter housing is formed integrally with the aperture.
- 10 22. The spotlight of claim 21, wherein the aperture is located in a recess portion of the filter housing and a portion of the first lens, when positioned closely adjacent to the aperture, nests in the recess portion.
- 15 23. The spotlight of claim 22, wherein the recess portion is correspondingly shaped to the shape of the portion of said first lens.
24. The spotlight of any one of claims 21-23, wherein the aperture is radially located in the filter housing to be aligned with one chamber.
- 20 25. The spotlight of claim 24, wherein the aperture is located on the opposite side of the filter housing to said at least one chamber.
26. The spotlight of any one of claims 21-25, wherein the filter housing has a plurality
- 25 of chambers and a plurality of apertures.
27. The spotlight of claim 26, wherein the plurality of apertures have differing diameters associated with different chambers of said plurality of chambers.

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28. The spotlight of any one of the preceding claims, wherein a second lens is provided which is moveable relative to the first lens so as to collimate the output light beam at different distances.

5 29. The spotlight of claim 28, wherein the first lens and said second lens are located on a lens mounting for simultaneous movement.

30. The spotlight of claim 28 or 29, wherein the first lens and said second lens move at different linear rates to maintain an even beam profile.

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31. A spotlight, substantially as described with reference to the drawings.